Unit: Geometry
Student Handout 5

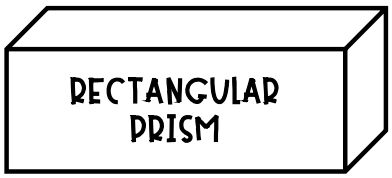
Name _____

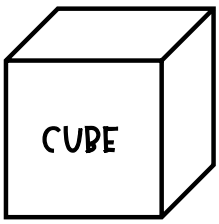
Date _____ Pd _____

INTRO TO 3D FIGURES

FACE	• Faces of a three-dimensional figure are any of the _____, including the bases. A lateral face does not include the base.
BASE	• The base of a three-dimensional figure _____ the shape. • A prism has two bases, which are _____ to each other and _____ touch.
VERTEX	• The vertex is the _____ of a three-dimensional figure.
EDGE	• The edge is the _____ _____ that joins two faces.

Label a vertex, edge, face, and base on each of the figures below.



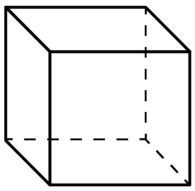
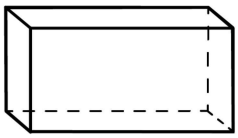
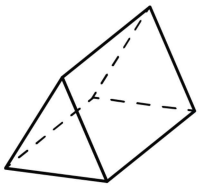
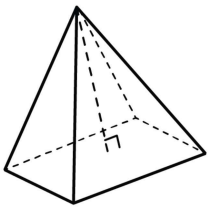
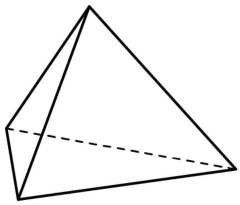


a. How are cubes and rectangular prisms the same?

b. A cube is a specific type of rectangular prism. What makes a cube unique?

PRISMS	• A prism is a solid figure with two _____ bases that are separated by the height of the figure. The bases are _____.
PYRAMIDS	• A pyramid is a solid figure with one base and _____. The height of the pyramid forms a _____ with the base. Pyramids are named by their base.

Complete the chart below by identifying the unique properties of each 3D figure. Use colored pencils to shade the various parts according to the directions.

SHAPE	NAME	TOTAL # OF FACES	BASES [RED]	VERTICES [GREEN]	EDGES [PURPLE]
					
					
					
					
					

a. What do you notice about the difference between pyramids and prisms?

_____

_____

b. Jonah says that a triangular prism is unique because it has two triangular faces. Do you agree or disagree? Explain your thinking.

_____

_____

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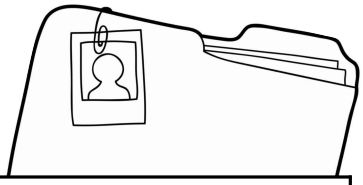
INTRO TO 3D FIGURES



The clues below describe different three-dimensional figures. Use your understanding of the properties of each shape to determine which figure the clue is describing. Record your solution in the table below.

My faces are not all congruent. I contain 12 edges. I contain 6 faces. 1 _____	All of my faces are congruent. I have 8 vertices. I am a 3D figure. 2 _____	I have a triangular shaped base. I am composed of 3 rectangular faces. I am a 3D figure. 3 _____
I have 5 vertices. I have one square base. I am a solid figure. 4 _____	I have two bases that are not rectangular. I have 6 vertices. I have 9 edges. 5 _____	All of my faces are equal in size. All 6 of my faces are square. 6 _____
I am composed of only rectangular faces. I have 8 vertices. I am a solid figure. 7 _____	I have 6 edges. I have 4 vertices. All of my faces meet at a vertex. 8 _____	I have 8 edges. Four of my faces are triangles. I am a solid figure. 9 _____